

**A RELATION BETWEEN SOME CLASSES OF ALGEBRAS AND
THE EXT-PROJECTIVES IN THE RIGHT PARTS OF THEIR
MODULE CATEGORIES**

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ABSTRACT. Happel, Reiten and Smalø introduced the concepts of right and left parts of $\text{mod } A$, denoted by \mathfrak{R}_A and \mathfrak{L}_A , respectively, which play an important role in describing the components of the Auslander-Reiten quiver of $\text{mod } A$. Many properties of these full subcategories of $\text{ind } A$ are obtained as a result of the study of particular modules, called Ext-projective in $\text{add } \mathfrak{R}_A$ and Ext-injective in $\text{add } \mathfrak{L}_A$. In this work, we look for a characterization of some classes of algebras from the Ext-projectives in the right parts of their module categories (or, dually, Ext-injective on the left parts).

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